IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in this application:

Claims 1-33. (Canceled)

Please add the following new claims as follows:

- 34. (New) An intramedullary nail comprising:
 - a nail body having a longitudinal axis, a proximal end configured and dimensioned for coupling to an insertion device, and a distal end having a tip configured and dimensioned for insertion into the intramedullary canal of a long bone,
 - at least three transverse holes extending through the distal end of the nail body, each transverse hole defining a hole axis, and all three transverse holes grouped at the distal end within a distance x measured from the tip of the nail body to the axis of the transverse hole furthest from the tip,

wherein a projection of the three hole axes of the at least three transverse holes in a plane orthogonal to the longitudinal axis is such that at least two of the projected hole axes are at an angle α with respect to one another, where $0 < \alpha < 90^{\circ}$, and where the distance $x \le 25d$, where d is either the diameter of the largest of the at least three transverse holes or d is the mean diameter of the at least three holes.

- 35. (New) The nail of claim 1, where the distance $x \le 7d$.
- 36. (New) The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $58^{\circ} \le \alpha \le 62^{\circ}$.
- 37. (New) The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $59^{\circ} \le \alpha \le 61^{\circ}$.
- 38. (New) The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $43^{\circ} \le \alpha \le 47^{\circ}$.

- 39. (New) The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $44^{\circ} \le \alpha \le 46^{\circ}$.
- 40. (New) The nail of claims 1, wherein at least two of the projected hole axes are at an angle α of $35^{\circ} \le \alpha \le 37^{\circ}$.
- 41. (New) The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $35.5^{\circ} \le \alpha \le 36.5^{\circ}$.
- 42. (New) The nail of claim 1, The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $29^{\circ} \le \alpha \le 31^{\circ}$.
- 43. (New) The nail of claim 1, wherein at least two of the projected hole axes are at an angle α of $29.5^{\circ} \le \alpha \le 30.5^{\circ}$.
- 44. (New) The nail of claim 1, further comprising at least a fourth hole grouped at the distal end of the nail body within the distance x measured from the tip of the nail body to the axis of the transverse hole furthest from the tip.
- 45. (New) An intramedullary nail comprising:
 - a nail body having a longitudinal axis, a proximal end configured and dimensioned for coupling to an insertion device, and a distal end having a tip configured and dimensioned for insertion into the intramedullary canal of a long bone,
 - at least three transverse holes extending through the distal end of the nail body, each transverse hole defining a hole axis, and all three transverse holes grouped at the distal end within a distance x measured from the tip of the nail body to the axis of the transverse hole furthest from the tip,

wherein a projection of the three hole axes of the at least three transverse holes in a plane orthogonal to the longitudinal axis is such that at least two of the projected hole axes are at an angle α with respect to one another, where $0 < \alpha < 90^{\circ}$, and where the distance x < 2(n)(d), where n is the number of transverse holes grouped within the distance x from the tip of the nail body and d is either the diameter of the largest of the at least three transverse holes or d is the mean diameter of the at least three holes.

46. (New) The intramedullary nail of claim 45, wherein the distance x < 1.8(n)(d).

- 47. (New) The intramedullary nail of claim 45, wherein the distance x < 1.5(n)(d).
- 48. (New) The intramedullary nail of claim 45, wherein the distance x < 1.4(n)(d)
- 49. (New) The intramedullary nail of claim 45, wherein the distal end of the nail includes at least five transverse holes grouped within the distance x, such that n = 5.
- 50. (New) The intramedullary nail of claim 45, wherein at least two of the transverse holes a at least partially intersect one another.
- 51. (New) The intramedullary nail of claim 51, wherein the at least two intersecting transverse holes are spaced at an angle α of 88° 92° with respect to one another.
- 52. (New) The intramedullary nail of claim 45, wherein at least one of the transverse holes includes an internal thread.
- 53. (New) The intramedullary nail of claim 45, wherein at least one of the transverse holes includes at least a portion with a conical shape.
- 54. (New) The intramedullary nail of claim 45, wherein the nail body has a tubular cross-section.
- 55. (New) The intramedullary nail of claim 45, wherein the axes of all transverse holes are located in planes orthogonal to the longitudinal axis of the nail body.
- 56. (New) An intramedullary nail comprising:
 - a nail body having a longitudinal axis, a proximal end configured and dimensioned for coupling to an insertion device, and a distal end having a tip configured and dimensioned for insertion into the intramedullary canal of a long bone,
 - at least three transverse holes extending through the distal end of the nail body, each transverse hole defining a hole axis, and all three transverse holes grouped at the distal end within a distance x measured from the tip of the nail body to the axis of the transverse hole furthest from the tip,

wherein a projection of the three hole axes of the at least three transverse holes in a plane orthogonal to the longitudinal axis is such that at least two of the projected hole axes are at an

angle α with respect to one another, where $0 < \alpha < 90^{\circ}$, and where the distance a between the tip and the transverse hole closest to the tip .

 $a \le 5 d$

where d is the diameter of the transverse hole closest to the tip.

- 57. (New) The intramedullary nail of claim 56, wherein the distance $a \le 1.5 d$.
- 58. (New) The intramedulary nail of claim 56, wherein a plurality of n transverse holes are located in the nail body, and a center of each hole is located at a distance x from the tip of the nail body, where
- $1.05 (n)(d) \le x \le 3.0 (n)(d)$.
- 59. (New) The intramedullary nail of claim 58, where x < (4(d) + (n-1)(2.2d)).
- 60. (New) The intramedullary nail of claim 56, wherein a distance b between the axes of two adjacent transverse holes is $b \le 1.5 d$.